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CLAIM AMENDMENTS

Claims 1-6 are currently pending in the application.

Please cancel claims 1-6 as shown below without prejudiced or disclaimer to the subject matter of claims 1-6.

Please add claims 7-18 as shown below.

This listing of claims 1-18 will replace all prior versions, and listings, of claims in the application:

1.-6. (Cancelled)

7. (New) A primary radio station for use in a communication system including a plurality of secondary radio stations, said primary station comprising:

a multi-directional controllable antenna structure operable to transmit and receive radio signals;

acquisition means for acquiring data relating to at least one of said secondary stations from at least one radio signal received by said multi-directional controllable antenna structure;

selection means for, based on the acquired data, conditionally selecting at least an active secondary station and at least an alternative secondary station suitable for becoming active;

calculation means for calculating directions of signals received from the selected secondary stations;

storage means for storing the calculated directions; and

control means for controlling said multi-directional controllable antenna structure in dependence of the stored directions.

8. (New) The primary station of claim 7, further comprising:

tracking means for tracking a direction of the active secondary station with said multi-directional controllable antenna structure.

9. (New) The primary station of claim 7,

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wherein said multi-directional controllable antenna structure includes a plurality of directional antennas;

wherein the acquired data are quality data associated with at least one secondary station/directional antenna pairing; and

wherein the active secondary station is the secondary station associated with a secondary station/directional antenna pairing having a highest quality data.

10. (New) A method for controlling a multi-directional controllable antenna structure in a primary radio station intended to communicate with a plurality of secondary stations of a radio communication network, said method comprising:

acquiring data relating to at least one of said secondary stations from at least one radio signal received by the multi-directional controllable antenna structure;

based on the acquired data, conditionally selecting at least an active secondary station and at least an alternative secondary station suitable for becoming active;

calculating directions of signals received from the selected secondary stations; storing the calculated directions; and

controlling the multi-directional controllable antenna structure in dependence of the stored directions.

11. (New) The method of claim 10, further comprising:

tracking a direction of the active secondary station with the multi-directional controllable antenna structure.

12. (New) The method of claim 10,

wherein the multi-directional controllable antenna structure includes a plurality of directional antennas;

wherein the acquired data are quality data associated with at least one secondary station/directional antenna pairing; and

wherein the active secondary station is the secondary station associated with a secondary station/directional antenna pairing having a highest quality data.

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13. (New) A radio communication system, comprising:
a plurality of secondary stations; and
a primary radio station including
a multi-directional controllable antenna structure operable to transmit
and receive radio signals,
acquisition means for acquiring data relating to at least one of said
secondary stations from at least one received radio signal,
selection means for, based on the acquired data, conditionally selecting
at least an active secondary station and at least an alternative secondary station
suitable for becoming active,
calculation means for calculating directions of signals received from
the selected secondary stations,
storage means for storing the calculated directions, and
control means for controlling said antenna structure in dependence of
the stored directions.
14. (New) The radio communication network of claim 13, wherein said primary
station further includes tracking means for tracking a direction of an active secondary
station with said multi-directional controllable antenna structure.
15. (New) The primary station of claim 13,
wherein the multi-directional controllable antenna structure includes a
plurality of directional antennas;
wherein the acquired data are quality data associated with at least one
secondary station/directional antenna pairing; and
wherein the active secondary station is the secondary station associated with a
secondary station/directional antenna pairing having a highest quality data.
16. (New) A computer program for use in a primary radio station having a multi-
directional controllable antenna structure and intended to be used in a radio

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communication network having a plurality of secondary stations, said computer program comprising computer program code means to make the primary radio station:

- acquire data relating to at least one of said secondary stations from at least one radio signal received by the multi-directional controllable antenna structure;
- based on the acquired data, conditionally select at least an active secondary station and at least an alternative secondary station suitable for becoming active;
- calculate directions of signals received from the selected secondary stations;
- store the calculated directions; and
- control the multi-directional controllable antenna structure in dependence of the stored directions.

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17. (New) The computer program of claim 16, wherein said computer program further comprises computer program means to make the primary radio station track a direction of the active secondary station with the multi-directional controllable antenna structure.

18. (New) The computer program of claim 16,

- wherein the multi-directional controllable antenna structure includes a plurality of directional antennas;
- wherein the acquired data are quality data associated with at least one secondary station/directional antenna pairing; and
- wherein the active secondary station is the secondary station associated with a secondary station/directional antenna pairing having a highest quality data.